

SAM SMITH

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EXPERIENCED WELDER, MECHANIC & MAINTENANCE MACHINIST

Parts Fabrication, Maintenance & Repair/Component Rebuilding & Installation/Systems Testing & Diagnostics

PROFESSIONAL PROFILE

A highly trained, conscientious, and results-oriented Maintenance Machinist with 20+ years of comprehensive industry training and progressive experience in a variety of environments within the field of industrial maintenance. Recognized as a performer able to manage multiple responsibilities simultaneously, proactively resolve issues, and consistently meet and exceed established goals and objectives. Effective trainer with a “hands-on” leadership style accustomed to working under fast-paced, high-volume, time-sensitive conditions. Quick learner demonstrating a high-level of accuracy and thoroughness recognized for capacity to work autonomously as well as collaboratively, function in a dynamic and changing environment, interact effectively with all levels of support staff and management, and easily grasp, apply, and present new ideas, concepts, methods, and technologies. Exceptional investigative, analytical, troubleshooting, and problem-solving skills. Willing to work in undesirable environments and inclement weather.

CORE COMPETENCIES

- *Hydraulic Component Repair*
- *Pneumatic Tools & Pumps*
- *Equipment Testing/Validation*
- *Blueprint/Schematic Analysis*
- *Risk Assessment/Mitigation*
- *Project & Team Management*
- *OSHA Regulatory Compliance*
- *Quality Assurance Standards*
- *Inventory Control/Management*
- *Heavy Equipment Operation*
- *Preventative Maintenance/Repair*
- *Restoration/Fabrication/Design*
- *Equipment Assembly/Disassembly*
- *Process Innovation/Optimization*
- *Safety Systems & Inspections*

PROFESSIONAL DEVELOPMENT/TRAINING

- “Miller” Welder - Rebuild & Repair ▪ Bearing Maintenance (Fit & Finish) ▪ CNC Programming
- Electronics ▪ Hydraulics & Pneumatics ▪ Gibbs, Cad/Cam, and Lycoming Aircraft Engines (Overhaul & Maintenance)
- Welding (MIG, Stick, TIG, Gas)

SPECIALIZED EQUIPMENT KNOWLEDGE

Equipment Design:

Portable Metal Working Machines, Heavy Equipment, Logging, Mining, Food Processing, and Wood Working Equipment, Drilling Rigs, Jet Engines, Fire Arms, Aircraft, Alternative Energy, and Furnaces

Heavy Equipment Mechanic/Mill Wright/Electrician:

Electric Motor Rewind & Repair (AC, DC, High-Voltage, Pumps, Generators, Welders, and Transformers)

Machinist: Manual, CNC, and Portable In-Field

Maintenance:

Metal Working Machines and Mining Equipment Including Crushers, Jaw Cone & Roll, Shaker Screens, Conveyors, Plate Feeders, Pug Mills, Ball Mills, and Rod Mills

Welding: MIG, Stick, TIG, Gas, and Submerged ARC

PROFESSIONAL EXPERIENCE

ABC Company

Any Town, USA

Jun. 1980 - Present

Owner/Vice President

Grew business from a two (2) car garage to a 41K square foot shop on seventy seven (77) acres with a 3,000 foot runway, heated hangar, and electric motor shop, two (2) CNC lathes, three (3) CNC horizontal mills, four (4) CNC vertical mills (one (1) with a 77” x 120” ten (10) ton table capacity, a seventy seven (77) inch CNC VBM, and upwards of fifty (50) pieces of manual equipment including a 700 ton wheel press.

- Directed the efforts of a staff of thirty five (35) responsible for all electrical, plumbing, heating, carpentry, dirt work, equipment relocation, set-up, and rebuild; provided ongoing supervision, training, and support and inspected and evaluated maintenance performed by junior personal.
- Presided over and managed multiple assignments, met deadlines, and accounted for equipment/resources.
- Facilitated, monitored, and carried out the full-range of mechanical equipment and machinery repair including unsupervised maintenance, troubleshooting, servicing, and testing.
- Conducted equipment and component inspections, functional checks, and preventive maintenance; removed, repaired, reassembled, and replaced components and systems.
- Provided detailed technical insight, guidance, and assistance; interpreted inspection findings and initiated, recommended, and implemented comprehensive course of action.

PROFESSIONAL EXPERIENCE (CONTINUED)**ABC Company****Any Town, USA****May 2002 - Sept. 2010***President/Founder*

- Initiated a research and development company for gas turbine engines and alternative energy.
- Tested, recorded, verified results, set-up, and operated dyno/thrust stand, air flow bench, and balancing equipment.
- Designed and built turboprop engines that have flown in six (6) different aircraft.
- Established a test cell at ABC State University Aerospace Department; measured torque and thrust as well as internal air speeds and pressures; performed chemical analysis of exhaust gases.
- Developed tests at ABC Naval Research Lab; compared manual versus digital fuel delivery systems.
- Ran experiments on permanent magnet motors, HHO, gasifiers, generators/high speed 65,000 rpm/hollow core/solid state, transformers/high efficiency, magnetic bearings, and plasma.
- Resolved various turbine engine problems including coking/hard carbon, continuous ignition, from steady state to near mach air speed, oiling in a negative G environment, 65,000 rpm gear box, redundancy in fuel control system analog/digital, and guarded against EMP/lightning strikes.
- Earned three (3) patents:
 - 1234567, Firing of Injectors, July 2007
 - 1234567, Nebulizer, May 2008
 - 1234567, Fuel Injection for all turbine engines, April 2005

ABC Company**Any Town, USA****Jul. 1990 - Apr. 1995***Owner*

- Spearheaded the day-to-day responsibilities for a portable machine shop.
- Welded, maintained, designed, and line-bored heavy equipment, mining equipment, logging equipment, construction equipment, paving equipment, snow removal equipment, trenching equipment, saw mill equipment, and drilling rigs,.
- Designed and built:
 - Fishing tool (in just two (2) days, it pulled a 1,000 foot steel from hole).
 - Serge bin/variable-speed plate feeder for jaw crusher.
 - Self-propelled log loader.
 - Trenching tool to lay natural gas line.

DESIGNATIONS

- PADI Scuba Diving (Advanced Open Water) ▪ Private Pilots License (Single Engine Land)

EDUCATION/HONORS

- ABC Area High School Vocational-Technical Institute Machine Shop; Graduated 1st in Class

PROFESSIONAL AFFILIATIONS

- Advisory Board Machine Shop, ABC County Vocational-Technical Institute

References and Supporting Documentation Furnished Upon Request